

Recombinant Human Cell Division Cycle 26 Homolog (*S. cerevisiae*), His-tagged

Cat. No. CDC26-1678H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CDC26 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography.
Species	Human
Source	Human
Description	CDC26, also known as ANAPC12, APC12, belongs to the CDC26 family which orchestrates progression through mitosis by decorating cell-cycle regulators with ubiquitin chains. This protein is component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20 mM Tris-HCl buffer, pH 8.0, containing 40% glycerol and 0.1M NaCl.
Purity	> 90% by SDS-PAGE
Sequence	1-85 amino acids: MGSSHHHHHH SSGLVPRGSH MLRRKPTRLE LKLDIEEFE NIRKDLETRK KQKEDVEVVG GSDGEGAIGLSSDPKSREQM INDRIGYKPKQ PKPNNRSSQF GSLEF

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Molecular Mass	11.9 kDa (105 aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	CDC26

GENE INFORMATION

Gene Name	CDC26 cell division cycle 26 homolog (S. cerevisiae) [Homo sapiens]
Synonyms	CDC26; cell division cycle 26 homolog (S. cerevisiae); APC12; ANAPC12; C9orf17; anaphase-promoting complex subunit CDC26; OTTHUMP00000021952; anaphase promoting complex subunit12; anaphase-promoting complex subunit 12; cell division cycle protein 26 homolog; CDC26 subunit of anaphase promoting complex; cell division cycle 26; chromosome 9 open reading frame 17; Anaphase-promoting complex subunit 12
Gene ID	246184
mRNA Refseq	NM_139286
Protein Refseq	NP_644815
UniProt ID	Q8NHZ8
Chromosome Location	9q32

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Pathway

APC/C complex; APC/C-mediated degradation of cell cycle proteins; APC/C: Cdc20 mediated degradation of Cyclin B; APC/C: Cdc20 mediated degradation of Securin; APC/C: Cdc20 mediated degradation of mitotic proteins; APC/C: Cdh1 mediated degradation of Cdc20 and other APC/C: Cdh1 targeted proteins in late mitosis/early G1; Activation of APC/C and APC/C: Cdc20 mediated degradation of mitotic proteins; Adaptive Immunity Signaling; Cell Cycle, Mitotic; Cell cycle; HTLV-I infection; Immune System; Inhibition of the proteolytic activity of APC/C required for the onset of anaphase by mitotic spindle checkpoint components; Oocyte meiosis; Phosphorylation of the APC/C; Regulation of APC/C activators between G1/S and early anaphase

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